

1.-60. (canceled)

61. (currently amended) Bonding machine for lamellar pieces of wood (2) to be joined to a board (12), wherein the bonding machine comprises at least one clamping and pressing device (3) and at least one drive, wherein the clamping and pressing device (3) has at least two pressing members (27) which are configured to be loaded independently of one another against the board (12) by a pressure force, and wherein the clamping and pressing device applies a pressing force onto the pieces of wood, arranged in a common plane and having longitudinal sides resting against one another, in a direction transverse to the longitudinal sides resting against one another for forming the board.

62. (currently amended) Bonding machine according to claim 61, wherein the pressing members (27) extend parallel to the pieces of wood (2) and transversely to a feeding direction (8) of the board (12).

63. (currently amended) Bonding machine according to claim 61, wherein the at least one drive comprises piston-cylinder units (16b) configured to adjust the pressing members (27).

64. (currently amended) Bonding machine according to claim 61, wherein the clamping and pressing device (3) has heating elements (9a) and the pressing members (27) are movable in a direction transversely to the board (12) relative to the heating elements (9a) to a limited extent.

65.-69. (withdrawn)

70. (currently amended) Bonding machine according to claim 64, wherein the heating elements (9a) are electrodes.

71. (currently amended) Bonding machine according to claim 64, wherein the heating elements (9a) extend parallel to one another.

72. (currently amended) Bonding machine according to claim 64, wherein the heating elements (9a) extend in the feeding direction (8) of the board (12).

73. (currently amended) Bonding machine according to claim 64, further comprising a common support (26, 37), wherein the heating elements (9a) are fastened to the common support (26, 37).

74. (currently amended) Bonding machine for lamellar pieces of wood (2)

to be joined to a board (12), wherein the bonding machine comprises at least one clamping and pressing device (3) and at least one drive, wherein the clamping and pressing device (3) has at least two pressing members (27) which are configured to be loaded independently of one another against the board (12) by a pressure force;

wherein the clamping and pressing device applies a pressing force onto the pieces of wood, arranged in a common plane and having longitudinal sides resting against one another, in a direction transverse to the longitudinal sides resting against one another for forming the board;

wherein the clamping and pressing device (3) has heating elements (9a) and the pressing members (27) are movable in a direction transversely to the board (12) relative to the heating elements (9a) to a limited extent;

a common support (26, 37), wherein the heating elements (9a) are fastened to the common support (26, 37); and

wherein the support is comprised of two connecting plates (26, 37) which extend transversely to the feeding direction (8) of the board (12) and ends of the heating elements (9a) are fastened to the two connecting plates (26, 37).

75. (currently amended) Bonding machine according to claim 73, wherein the at least one drive comprises piston-cylinder units (16b) configured to adjust the pressing members (27), further comprising coupling members (36, 40) connected to the piston-cylinder units (16a, 16b), wherein the support (26, 37) has through openings configured to receive the coupling members (36, 40).

76. (currently amended) Bonding machine according to claim 75, wherein the coupling members (36), positioned at an outlet side of the pressing device (3), connect the piston-cylinder units (16b) and the pressing members (27).

77. (currently amended) Bonding machine according to claim 76, wherein one of the coupling members (36) is movable to a limited extent relative to the support (37) in which the one coupling member (36) is received and to the heating elements (9a) in a direction transversely to the plane of the board (12).

78. (currently amended) Bonding machine according to claim 76, wherein the pressing members (27) extend across the area of at least two adjacently positioned

heating elements (9a).

79. (currently amended) Bonding machine according to claim 76, wherein the pressing members (27) are positioned at the outlet side of the pressing device (3) in front of the heating elements (9a).

80. (currently amended) Bonding machine according to claim 64, further comprising a support (26); wherein the heating elements (9a) are fastened to the support (26) and are configured for receive tensile forces in the feeding direction (8).

81. (currently amended) Bonding machine for lamellar pieces of wood (2) to be joined to a board (12), wherein the bonding machine comprises at least one clamping and pressing device (3) and at least one drive, wherein the clamping and pressing device (3) has at least two pressing members (27) which are configured to be loaded independently of one another against the board (12) by a pressure force;

wherein the clamping and pressing device (3) has heating elements (9a) and the pressing members (27) are movable in a direction transversely to the board (12) relative to the heating elements (9a) to a limited extent;

a support (26), wherein the heating elements (9a) are fastened to the support (26) and are configured for receive tensile forces in the feeding direction (8);

noses (28) connected to the support (26) and positioned in front of each heating element (9a) at the inlet side of the clamping and pressing device (3).

82. (currently amended) Bonding machine for lamellar pieces of wood (2) to be joined to a board (12), wherein the bonding machine comprises at least one clamping and pressing device (3) and at least one drive, wherein the clamping and pressing device (3) has at least two pressing members (27) which are configured to be loaded independently of one another against the board (12) by a pressure force;

wherein the clamping and pressing device (3) has at least one pressing slide (13) configured to apply the pressing force onto the pieces of wood (2) of the board (12).

83. (currently amended) Bonding machine according to claim 82, comprising a lifting device (14) configured to adjust the pressing slide (13) from a lowered position into a working position.

84. (currently amended) Bonding machine according to claim 83, wherein

the pressing slide (13) in the lowered position forms a support for the pieces of wood (2) during insertion into the clamping and pressing device (3).

85. (currently amended) Bonding machine according to claim 82, further comprising a support (26), wherein the heating elements (9a) are fastened to the support (26) and further comprising noses (28) connected to the support (26) and positioned in front of each heating element (9a) at the inlet side of the clamping and pressing device (3), wherein the pressing slide (13) has cutouts into which the noses (28) penetrate.

86. (currently amended) Bonding machine according to claim 82, wherein the lifting device (14) has at least one height-adjustable carriage (14) on which the pressing slide (13) is arranged.

87. (currently amended) Bonding machine according to claim 86, wherein the pressing slide (13) is configured to move transversely to a movement direction of the carriage (14) and absolutely parallel and configured to apply the pressure force onto the pieces of wood (2).

88. (currently amended) Bonding machine according to claim 86, wherein the pressing slide (13) extends across the length of the pieces of wood (2) of the board (12).

89. (currently amended) Bonding machine according to claim 86, comprising a feeding device (1) arranged upstream of the clamping and pressing device (3), wherein the pieces of wood (2) are combined to the board (12) in the feeding device (1).

90. (currently amended) Bonding machine according to claim 89, wherein the feeding device (1) has at least one holding-down device (6, 7) for the pieces of wood (2) of the board (12).

91. (currently amended) Bonding machine according to claim 90, wherein the holding-down device (6, 7) is adjustable in the direction of height.

92. (currently amended) Bonding machine according to claim 91, wherein the holding-down device (6, 7) has at least two holding-down elements arranged successively in the feeding direction (8) of the pieces of wood (2).

93. (currently amended) Bonding machine according to claim 92, wherein

the holding-down elements ~~(6, 7)~~ are height-adjustable independent from one another.

94. (currently amended) Bonding machine according to claim 92, wherein the forwardly positioned holding-down element ~~(7)~~ in the feeding direction ~~(8)~~ of the pieces of wood ~~(2)~~ is height-adjustable together with the carriage ~~(14)~~.

95. (currently amended) Bonding machine according to claim 92, wherein the forwardly positioned holding-down element ~~(7)~~ in the feeding direction ~~(8)~~ of the pieces of wood ~~(2)~~ is height-adjustable relative to the pressing slide ~~(13)~~ and to the carriage ~~(14)~~.

96. (currently amended) Bonding machine according to claim 89, wherein the feeding device ~~(1)~~ has at least one slide ~~(11)~~ configured to act on the board ~~(12)~~.

97. (currently amended) Bonding machine according to claim 96, wherein a pressure bed is positioned on the bonded board ~~(12)~~ which, upon insertion of a new board, forms a friction element against the force of the slide ~~(11)~~.

98. (currently amended) Bonding machine according to claim 89, further comprising a coating station for an adhesive arranged upstream of the feeding device ~~(1)~~ and configured to coat at least one of the longitudinal sides of the pieces of wood ~~(2)~~ with an adhesive.

99. (currently amended) Bonding machine according to claim 98, wherein the at least one longitudinal side of the pieces of wood ~~(2)~~ are coated during transport into the feeding device ~~(1)~~.

100. (currently amended) Bonding machine according to claim 61, wherein the pressing device ~~(3)~~ has a support ~~(10)~~ for the board ~~(12)~~.

101. (currently amended) Bonding machine according to claim 100, wherein the support ~~(10)~~ is comprised of at least two support parts ~~(10a)~~.

102. (currently amended) Bonding machine according to claim 101, wherein the support parts ~~(10a)~~ are heating members.

103.-106. (withdrawn)

107. (currently amended) Bonding machine according to claim 101, wherein the support parts ~~(10a)~~ are electrodes which extend transversely to the pieces of wood ~~(2)~~ of the board ~~(12)~~.

108. (currently amended) Bonding machine according to claim 61, wherein

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the clamping and pressing device (3) has lower heating elements (10a) fastened on a frame of the clamping and pressing device (3) and configured to receive tensile forces in the feeding direction (8).

109.-114. (withdrawn)

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